

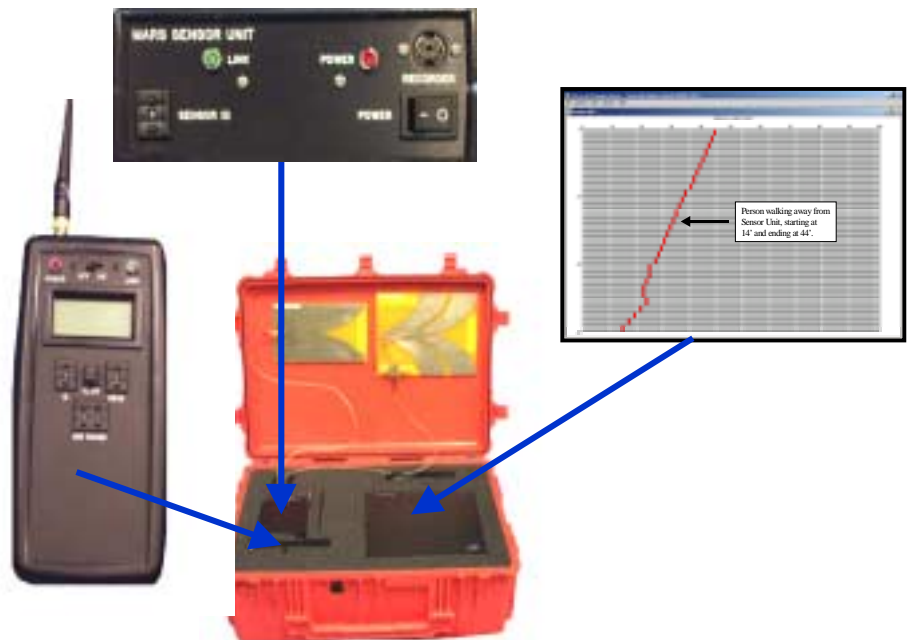


OFFICE OF SCIENCE & TECHNOLOGY

Radar-Based Through The Wall Surveillance System

Project Description:

The National Institute of Justice is funding development of a portable, briefcase-sized, through-the-wall surveillance device developed by Raytheon (formerly Hughes Missile Systems) for SWAT applications. This device is a modification of a commercial motion detector sold by Hughes. It employs a low power radar that can locate and track multiple individuals through concrete or brick exterior building walls.



Status Report:

A prototype was successfully demonstrated with the Los Angeles County, CA Sheriff's Department and Albuquerque, NM Police Department under quasi operational conditions. It demonstrated the ability to consistently track the activity of an individual moving behind an eight-inch thick concrete wall to a range of more than 75 feet from the radar. NIJ is funding modification of this device and anticipates receiving a prototype before the end of 2002 for technical evaluation and operational evaluation with law enforcement agencies.

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